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A New Species of *Encarsiella* (Hymenoptera : Aphelinidae) from Taiwan[1]

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Abstract : *Encarsiella taiwanensis* sp. nov. (Hymenoptera : Aphelinidae) from Taiwan is described and illustrated.

Key words : Aphelinidae, Hymenoptera, Aleyrodidae, *Encarsiella,* Taiwan.

INTRODUCTION

The genus *Encarsiella* Hayat is a small group of the family Aphelinidae, being represented by 6 species in the world. Their hosts are Aleyrodidae and Plataspidae. This genus have been revised and keyed recently(2) ; it is recorded from Taiwan for the first time, and a new species is described in this paper. The terminology used in this paper follows Hayat (1). The specimens (including types) are deposited in the insect collection of the Taiwan Agricultural Research Institute, Taichung, Taiwan, ROC.

Encarsiella taiwanensis sp. n.

(Figs. 1-5)

Female : Eye with very fine setae. Mandible with two teeth and a truncation. Antennal formula 1,1,3,3 ; flagellum slender and elongate. F1 and F2 subequal in length, each about 1.8 times width ; and about 1.4 times as long as pedicel. F3 about 1.5 times as long as wide, and 0.84 times as long as F1. Funicle about 1.4 times clava. F5 slightly oblique apically, F6 with sensorial complex. Flagellum with following numbers of longitudinal sensilla : F1:1; F2:2; F3:2; F4:3; F5:3; F6:2. Mid-lobe of mesoscutum with 41-50 setae, lateral lobe with 3 setae. Forewing : 2.3 times as long as wide ; submarginal vein with 2 large setae ; basal cell with 21-26 setae ; wing width about 10 times longest seta on marginal fringe. Hindwing : 5.0 times as long as wide ; marginal fringe 0.58 times as long as wing width. Tergum VII about 2.1 times as wide as long. Second valvifer about 2.0 times as long as third valvula. Ovipositor 0.57 times as long as mid tibia. Terga II-VII with 3-5 + 3-5, 4-5 + 4-5, 5+5, 5-6 + 2 + 5-6, 2-4 + 2-4 and 6 setae respectively.

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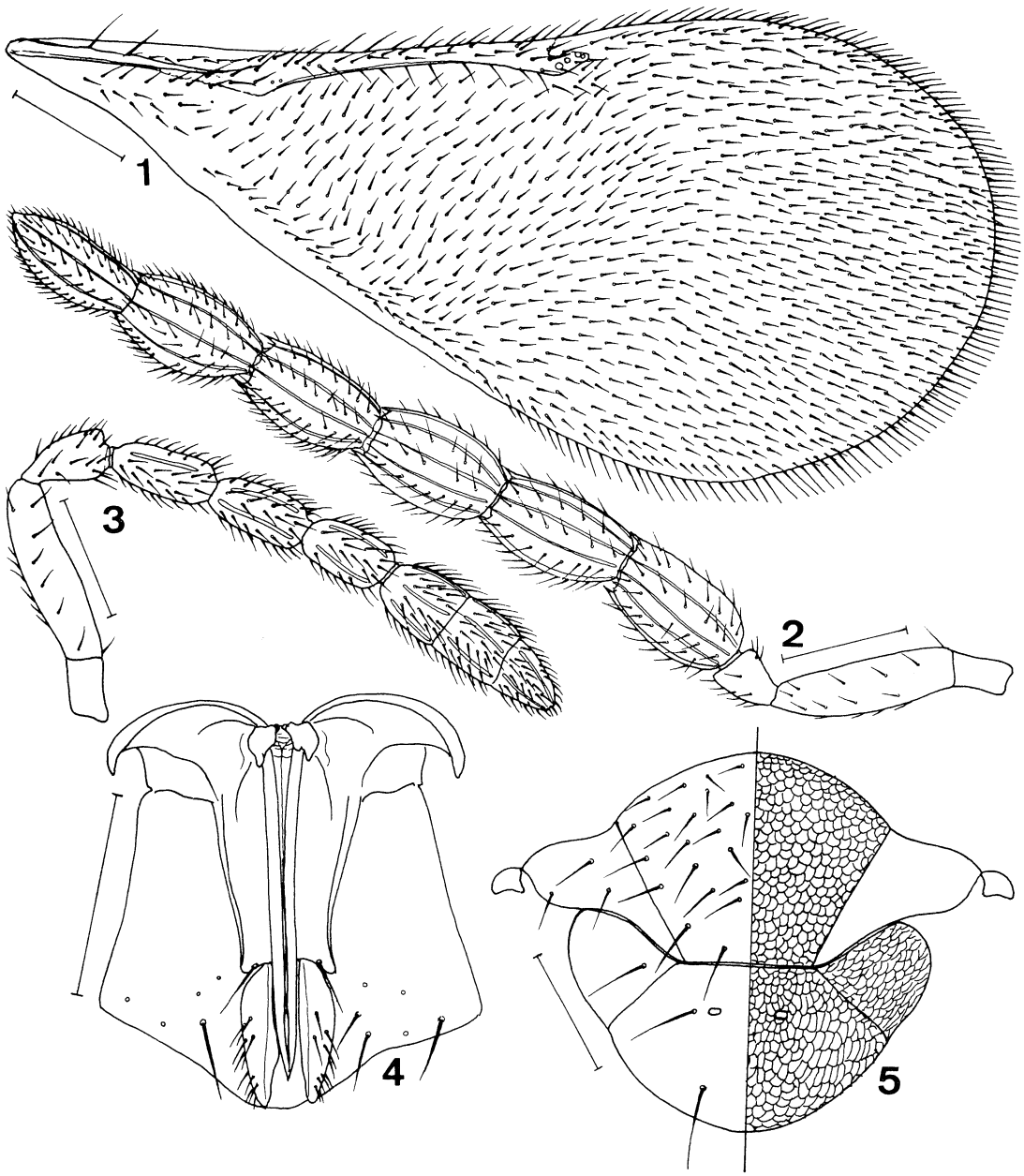

Figs. 1–5. *Encarsiella taiwanensis* sp. nov. 1, forewing, ♀ ; 2, antenna, ♂ ; 3, antenna, ♀ ; 4, ovipositor ; 5, mesonotum. ♀ (Scale 0.1mm).

Dark brown ; vertex orange red, frons brownish yellow. Antenna brownish yellow ; scape lighter, F1 brown, F4 and F5 dark brown. Wings hyaline. Legs pale yellow, mesocoxa, metacoxa, and most of metafemur brown.

Male : Similar to female. Pedicel almost as long as wide. All flagellar segments subequal in length, about 2.8 times as long as pedicel. Flagellum with following numbers of longitudinal sensilla : F1:7; F2:7; F3:9; F4:7; F5:7; F6:5. Vertex largely dark brown. Antenna brown, scape faintly brownish yellow, F2-F4 light brown.

Specimens examined : Holotype ♀, PINGTUNG, Kenting, 14.IX.1994 (K.C. Chou). Paratypes : NANTOU, Wushe, 1♀, 18.III.1994 (K.C. Chou). PINGTUNG, Henchun, 2♀2♂ , 3.III.1994 (K.C. Chou) ; Kenting, 1♂ , 21.IV.1994 ; 1♀2♂ , 14.IX.1994 (K.C. Chou). TAIPEI, Yangmingshan, 2♀2♂ , 27.I.1994 (K.C. Chou). All reared from *Aleurodicus machili.*

Distribution : Taiwan.

Host : *Aleurodicus machili* Takahashi (Aleyrodidae).

Remarks : Runs in the key to species of *Encarsiella* by Polaszek & Hayat[2]to *E. aleurodici* (Girault) which distributed in Barbados, Ecuador and Trinidad.. This species, however, can be easily discriminated from *E. aleurodici* by the pedicel of male almost as long as wide.

Etymology : Named after Taiwan.

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臺灣擬恩蚜小蜂屬(膜翅目：蚜小蜂科)一新種[1]

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摘　要

擬恩蚜小蜂屬（*Encarsiella*）隸膜翅目蚜小蜂科，目前全世界已知之種類約有 6 種；該屬首次記錄分佈於臺灣。本文描述 *Encarsiella taiwanensis* sp. nov. 之形態特徵，並輔以性狀圖說明。

關鍵詞：蚜小蜂科、膜翅目、粉蝨科、擬恩蚜小蜂屬、臺灣。

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